Singapore-Delft Water Alliance (SDWA) is a multi-national, interdisciplinary research Centre of Excellence for Water Knowledge involving Public Utilities Board (Singapore), National University of Singapore and Deltares (The Netherlands), established through an initiative of the National Research Foundation in Singapore.

SDWA research agenda adopts systemic approach to the water problem and addresses entire hydrological cycle in an interconnected fashion. The agenda encompasses interaction of natural and artificial (man made) environments and explores opportunities for sustainable water management based on building with nature concepts. SDWA places strong emphasis to the information cycle in respect of water cycle through smart sensing of aquatic environment, intelligent data processing, as well as deterministic, self-learning and adaptive modelling.

The talk will outline several ongoing SDWA research projects dealing with:
- model-predictive real time modeling and control systems in urbanized environment,
- coastal and oceanographic modeling and data assimilation systems, and
- peatland characterization and conservation efforts

http://www.sdwa.nus.edu.sg